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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/644,569	08/20/2003	Gary J. Zyhowski	H0004903	6634
759	90 12/06/2006		EXAM	INER
Colleen D. Szı	ich, Esq.	ALEXANDER, LYLE		
Honeywell Corp	ooration			
Law Department, AB			ART UNIT	PAPER NUMBER
P.O. Box 2245			1743	
Morristown, NJ	07962-2245			

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)
	10/644,569	ZYHOWSKI ET AL.
Office Action Summary	Examiner	Art Unit
	Lyle A. Alexander	1743
The MAILING DATE of this communication a Period for Reply	ppears on the cover sheet	vith the correspondence address
A SHORTENED STATUTORY PERIOD FOR REP WHICHEVER IS LONGER, FROM THE MAILING - Extensions of time may be available under the provisions of 37 CFR after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory perio Failure to reply within the set or extended period for reply will, by state Any reply received by the Office later than three months after the mail earned patent term adjustment. See 37 CFR 1.704(b).	DATE OF THIS COMMUN 1.136(a). In no event, however, may not will apply and will expire SIX (6) MO ute, cause the application to become	IICATION. a reply be timely filed DNTHS from the mailing date of this communication. ABANDONED (35 U.S.C. § 133).
Status		
1) Responsive to communication(s) filed on 25 2a) This action is FINAL . 2b) Th 3) Since this application is in condition for allow closed in accordance with the practice under	nis action is non-final. vance except for formal ma	·
Disposition of Claims		
4) Claim(s) 1 and 3-28 is/are pending in the approach 4a) Of the above claim(s) is/are withdr 5) Claim(s) is/are allowed. 6) Claim(s) 1 and 3-28 is/are rejected. 7) Claim(s) is/are objected to. 8) Claim(s) are subject to restriction and application Papers	rawn from consideration.	
··· _		•
9) The specification is objected to by the Examir 10) The drawing(s) filed on is/are: a) according a constant may not request that any objection to the Replacement drawing sheet(s) including the correct of the second sheet of the second sh	ccepted or b) objected to be drawing(s) be held in abeyonetion is required if the drawing.	ance. See 37 CFR 1.85(a). g(s) is objected to. See 37 CFR 1.121(d).
Priority under 35 U.S.C. § 119		
12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of: 1. Certified copies of the priority document 2. Certified copies of the priority documents. Copies of the certified copies of the priority documents. See the attached detailed Office action for a list	nts have been received. Ints have been received in fority documents have bee au (PCT Rule 17.2(a)).	Application No n received in this National Stage
Attachment(s) I) ⊠ Notice of References Cited (PTO-892)	4) ☐ Interview	Summary (PTO-413)
2) Notice of Draftsperson's Patent Drawing Review (PTO-948) B) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date	Paper No	(s)/Mail Date Informal Patent Application

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Claim Rejections - 35 USC § 112

The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

Claims 1 and 3-28 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

Claim 1 is directed to leak detection in the preamble, however, the are no reagents recited. From reading the disclosure, the Office understands the "dye precursor" is the indicator. The claim could be clarified by claiming the "dye precursor" as the indicator or reacting with the chemical to indicate leak detection.

Claim 1 is also vague and indefinite what structure is contemplate by the claimed "microcapsule". Clarification could be achieved by noting the appropriate portion of the specification where the microcapsule structure is described.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

The factual inquiries set forth in *Graham* v. *John Deere Co.*, 383 U.S. 1, 148 USPQ 459 (1966), that are applied for establishing a background for determining obviousness under 35 U.S.C. 103(a) are summarized as follows:

1. Determining the scope and contents of the prior art.

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2. Ascertaining the differences between the prior art and the claims at issue.

3. Resolving the level of ordinary skill in the pertinent art.

4. Considering objective evidence present in the application indicating obviousness or nonobviousness.

This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary. Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later invention was made in order for the examiner to consider the applicability of 35 U.S.C. 103(c) and potential 35 U.S.C. 102(e), (f) or (g) prior art under 35 U.S.C. 103(a).

Claims 1 and 3-28 are rejected under 35 U.S.C. 103(a) as being unpatentable over Moore (USP 5,447,688) in view of Derwent 1985-090152.

Moore teaches a leak detector(10) comprising a test strip(12) attached to a gas permeable membrane(28). The test strip(12) contains the appropriate indicators and developers to provide a colorimetric indication of a chemical leak.

Moore is silent to the claimed "microcapsules" and the claimed support materials and indicators.

Derwent 1985-090152 that it is desirable to incorporate the reagent into microcapsules to gain the advantages of a higher contrast image with lower reagent concentrations.

It would have been within the skill of the art to modify Moore (USP 5,447,688) in view of Derwent 1985-090152 and incorporate the indicator into microcapsules to gain the above advantages.

The court decided In re Leshin (125 USPQ 416) "Mere selection of known plastics being on the basis of suitability of intended use, would be entirely obvious; and in view of 35 USC 103 it is a wonder that the point is even mentioned". The Office maintains all of the polymer support materials presently claimed are well known in the art. Polymers are desirable for their light weight, low cost and inert properties. It would have been within the skill of the art to further modify Moore and use the claimed polymers as supports to gain the above advantages on the basis of their suitability of intended use.

The court decided <u>In re Boesch</u> (205 USPQ 215) that optimization of a result effective variable is ordinarily within the skill of the art. A result effective variable is one that has well known and predictable results. The choice of a particular reagent for detection of an analyte of interest (e.g. leaked chemical) is a result effective variable having the well known and expected result of detection. It would have been within the skill of the art to further modify Moore, and use the claimed reagents to detect the claimed "chemical" as optimization of a result effective variable.

Response to Arguments

Applicant's arguments with respect to claims 1 and 3-28 have been considered but are most in view of the new ground(s) of rejection.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Lyle A. Alexander whose telephone number is 571-272-1254. The examiner can normally be reached on Monday, Wednesday and Friday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Jill Warden can be reached on 571-272-1267. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Lyle A Alexander Primary Examiner Art Unit 1743
